

Name: _____

at1113exam: Expand, factor, and solve quadratics (v202)

1. Expand the following expression into standard form.

$$(7x + 9)(8x - 5)$$

2. Expand the following expression into standard form.

$$(4x + 7)^2$$

3. Expand the following expression into standard form.

$$(8x + 3)(8x - 3)$$

4. Solve the equation.

$$(5x + 4)(8x - 7) = 0$$

5. Solve the equation.

$$7x^2 - 12x + 3 = 2x^2 - 3x + 5$$

6. Solve the equation with factoring by grouping.

$$8x^2 - 12x + 10x - 15 = 0$$

7. Factor the expression.

$$x^2 - 9x + 14$$

8. Factor the expression.

$$25x^2 - 36$$